



Long series on US dollar bilateral nominal exchange rates – data documentation

Last updated 19 April 2023

The BIS nominal exchange rate data set contains USD exchange rates for the currencies of 192 economies at daily, monthly, quarterly and annual frequencies. These exchange rate series, which draw on central bank data as well as other sources, are used for the calculation of the BIS nominal and real effective exchange rate series and as an input to the BIS International Banking and Financial Statistics.

While several institutions publish time series on exchange rates (some with a country coverage similar to the one of the BIS), the BIS data set is unique in several respects. First, it combines current and historical data in a single data set with the highest possible level of consistency and comparability across countries. Second, the time series are available in multiple frequencies. The data can be downloaded and visualised conveniently using the various BIS statistical tools on the website, such as the BIS Statistics Warehouse, BIS Statistics Explorer and full CSV files. Finally, the BIS has benefited from the background information provided by the central banks on their time series (specific measure or collection time). See also the [US dollar exchange rates homepage](#) on the BIS website.

Daily data are available for approximately 80 economies. While the starting date of most daily series ranges from 1970 to 1995, series starting in the 1950s are available for 14 currencies. For lower frequencies, more historical data are available: the monthly, quarterly and annual series are substantially longer than the daily ones for several currencies. These time series are calculated as end-of-period figures or as averages over daily data, but extended backwards with the additional low-frequency historical data. Most monthly, quarterly and annual series start in 1957. The longest exchange rate series is for GBP/USD, for which monthly data are available starting in 1791.

For the most recent periods, daily data from the ECB is the main source, complemented with data from the US Federal Reserve. Exchange rates are measured at 13:15 GMT for the ECB data and 17:00 GMT for the Federal Reserve. Using data mainly from these institutions, each of which supplies data on a large number of currencies, maximises comparability across countries in terms of quotation time and market. Data are taken from other BIS member central banks for periods for which no data from the ECB or the Federal Reserve are available. The Deutsche Bundesbank is a key source for historical data. The International Monetary Fund's International Financial Statistics is another source for historical information, as it includes monthly and quarterly exchange rates for 190 economies going back to the 1950s. The documentation of the BIS data set provides detailed information on the sources used for each currency and time period.

Additional information

The ECB publishes exchange rates against the euro. The BIS series based on ECB data are calculated from the national currency/EUR and the EUR/USD cross rates. The Deutsche Bundesbank publishes historical exchange rates against the Deutsche Mark

(DEM). The BIS series based on Deutsche Bundesbank data are calculated from the national currency/DEM and the DEM/USD cross rates.

The exchange rates of the euro area legacy currencies are expressed in euro. For the period preceding the introduction of the euro, the legacy currency/USD exchange rate is divided by the fixed irrevocable euro conversion rate¹.

For the country specific information please see the table on the following pages.

Series may be downloaded, reproduced and disseminated as long as the appropriate national source is quoted and the [BIS terms and conditions](#) are observed.

¹ <https://www.ecb.europa.eu/euro/intro/html/index.en.html>

BIS member and non-member countries for which nominal exchange rate series are compiled using more than one source

Country			
AE	United Arab Emirates	Compilation/Source	From 1 Jan 2007 onwards: Central Bank of the United Arab Emirates. From Jan 1994 to Dec 2006: IMF representative exchange rate collection. Prior to Jan 1994: IMF International Financial Statistics.
AL*	Albania	Compilation/Source	From 1 Dec 1998 onwards: Bank of Albania Prior to Dec 1998: IMF International Financial Statistics.
AR	Argentina	Compilation/Source	From 1 November 2020 onwards: Central Bank of Argentina. From 13 Jan 2000 to 31 October 2020: ECB. Prior to Jan 2000: Central Bank of Argentina.
AT	Austria	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 28 Jun 1974 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 27 Jun 1974: US Federal Reserve System. Prior to 4 Jan 1971: Deutsche Bundesbank.
AU	Australia	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 21 Sept 1981 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 20 Sep 1981: US Federal Reserve System. Prior to Jan 1971: IMF International Financial Statistics.
BA	Bosnia and Herzegovina	Compilation/Source	From 6 Jan 1998 onwards: Central Bank of Bosnia and Herzegovina. Prior to Jan 1998: IMF International Financial Statistics.
BE	Belgium	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 28 Jun 1974 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 27 Jun 1974: US Federal Reserve System. Prior to 4 Jan 1971: Deutsche Bundesbank.
BG	Bulgaria	Compilation/Source	From 19 Jul 2000 onwards: ECB. From 19 Feb 1991 to 18 Jul 2000: Bulgarian National Bank. Prior to Feb 1991: IMF International Financial Statistics.
BH*	Bahrain	Compilation/Source	From 3 Jan 1994 onwards: IMF representative exchange rate collection. Prior to Jan 1994: IMF International Financial Statistics.
BN*	Brunei	Compilation/Source	From 4 Sep 1998 onwards: IMF representative exchange rate collection. Prior to Sept 1998: IMF International Financial Statistics.
BR	Brazil	Compilation/Source	From 13 Jan 2000 onwards: ECB. From 2 Jan 1995 to 12 Jan 2000: US Federal Reserve System. Prior to 2 Jan 1995: Central Bank of Brazil.
CA	Canada	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 2 Jun 1975 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 1 Jun 1975: US Federal Reserve System. From 10 Aug 1953 to 3 Jan 1971: Deutsche Bundesbank. Prior to 10 Aug 1953: Bank of Canada.
CL	Chile	Compilation/Source	From Jan 1960 onwards: Central Bank of Chile. Prior to Jan 1960: IMF International Financial Statistics.
CN	China	Compilation/Source	From 13 Jan 2000 onwards: ECB. From Jan 1981 to 12 Jan 2000: US Federal Reserve System. Prior to Jan 1981: IMF International Financial Statistics.
CO	Colombia	Compilation/Source	From 22 March 1967 onwards: Central Bank of Colombia. Prior to March 1967: IMF International Financial Statistics.
CY*	Cyprus	Compilation/Source	From 1 Jan 2008 onwards: ECB From 2 Jan 1990 to 31 Dec 2007: European Commission. Prior to Jan 1990: IMF International Financial Statistics.

Country			
CZ	Czech Republic	Compilation/Source	From 1 Jan 1999 onwards: ECB. Prior to 1 Jan 1999: European Commission.
DE	Germany	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 28 Jun 1974 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 27 Jun 1974: US Federal Reserve System. Prior to 4 Jan 1971: Deutsche Bundesbank.
DK	Denmark	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 28 Jun 1974 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 27 Jun 1974: US Federal Reserve System. Prior to 4 Jan 1971: Deutsche Bundesbank.
DZ	Algeria	Compilation/Source	From 1 November 2020 onwards: Bank of Algeria. From 13 Jan 2000 to 31 October 2020: ECB. From Jan 1995 to 12 Jan 2000: Bank of Algeria. Prior to Jan 1995: IMF International Financial Statistics.
EE	Estonia	Compilation/Source	From 1 Jan 1999 onwards: ECB. Prior to 1 Jan 1999: European Commission.
ES	Spain	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 2 Jun 1975 to 31 Dec 1998: European Commission. From 2 Jan 1973 to 1 Jun 1975: US Federal Reserve System. From 18 Feb 1963 to 1 Jan 1973: Deutsche Bundesbank. From 24 May 1962 to 17 Feb 1963: Banco de España. Prior to May 1962: IMF International Financial Statistics.
FI	Finland	Compilation/Source	From 1 Jan 1999: ECB. From 2 Jun 1975 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 1 Jun 1975: US Federal Reserve System. Prior to Jan 1971: IMF International Financial Statistics.
FR	France	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 28 Jun 1974 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 27 Jun 1974: US Federal Reserve System. Prior to 4 Jan 1971: Deutsche Bundesbank.
GB	United Kingdom	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 28 Jun 1974 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 27 Jun 1974: US Federal Reserve System. From 10 Aug 1953 to 3 Jan 1971: Deutsche Bundesbank. Prior to 10 Aug 1953: Bank of England.
GR	Greece	Compilation/Source	From 1 Jan 2001 onwards: ECB. From 10 Jun 1977 to 31 Dec 2000: European Commission. Prior to Jun 1977: IMF International Financial Statistics.
HK	Hong Kong SAR	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 2 Jan 1981 to 31 Dec 1998: US Federal Reserve System. From Nov 1979 to Dec 1980: Hong Kong Monetary Authority. Prior to Nov 1979: IMF International Financial Statistics.
HR	Croatia	Compilation/Source	From 13 Jan 2000 onwards: ECB. Prior to 13 Jan 2000: Croatian National Bank.
HU	Hungary	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 4 Jan 1988 to 31 Dec 1998: European Commission. Prior to 4 Jan 1988: Central Bank of Hungary.
ID	Indonesia	Compilation/Source	From 5 Jan 1999 onwards: ECB. From 1 Jan 1988 to 4 Jan 1999: US Federal Reserve System. Prior to Jan 1988: IMF International Financial Statistics.
IE	Ireland	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 28 Jun 1974 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 27 Jun 1974: US Federal Reserve System. Prior to Jan 1971: IMF International Financial Statistics.
IL	Israel	Compilation/Source	From 13 Jan 2000 onwards: ECB. From 1 Jan 1977 to 12 Jan 2000: Bank of Israel. Prior to Jan 1977: IMF International Financial Statistics.

Country			
IN	India	Compilation/Source	From 13 Jan 2000 onwards: ECB. From 2 Jan 1973 to 12 Jan 2000: US Federal Reserve System. Prior to Jan 1973: IMF International Financial Statistics.
IR*	Iran	Compilation/Source	From 3 Jan 1994 onwards: IMF representative exchange rate collection. Prior to Jan 1994: IMF International Financial Statistics.
IS	Iceland	Compilation/Source	From 1 Jan 1981 onwards: Central Bank of Iceland. Prior to Jan 1981: IMF International Financial Statistics.
IT	Italy	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 28 Jun 1974 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 27 Jun 1974: US Federal Reserve System. Prior to 4 Jan 1971: Deutsche Bundesbank.
JP	Japan	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 2 Jun 1975 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 1 Jun 1975: US Federal Reserve System. From 1 Dec 1969 to 3 Jan 1971: Deutsche Bundesbank. Prior to Dec 1969: IMF International Financial Statistics.
KR	Korea	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 14 Nov 1997 to 31 Dec 1998: European Commission. From 13 Apr 1981 to 13 Nov 1997: US Federal Reserve System. From 4 May 1964 to 12 Apr 1981: Bank of Korea. Prior to May 1964: IMF International Financial Statistics.
KW	Kuwait	Compilation/Source	From 3 Jan 1994 onwards: IMF representative exchange rate collection. Prior to Jan 1994: IMF International Financial Statistics.
KZ*	Kazakhstan	Compilation/Source	From 3 Apr 2006 onwards: IMF representative exchange rate collection. Prior to Apr 2006: IMF International Financial Statistics.
LK*	Sri Lanka	Compilation/Source	From 2 Jan 1973 onwards: US Federal Reserve System. Prior to Jan 1973: IMF International Financial Statistics.
LT	Lithuania	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 25 Jun 1993 – 31 Dec 1998: European Commission. Prior to Jun 1993: IMF International Financial Statistics.
LU	Luxembourg	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 28 Dec 1978 to 31 Dec 1998: European Commission. Prior to Dec 1978: IMF International Financial Statistics.
LV	Latvia	Compilation/Source	From 1 Jan 1999 onwards: ECB. Prior to Jan 1999: European Commission.
MA	Morocco	Compilation/Source	From 30 Oct 2020: Bank Al-Maghrib. From 13 Jan 2000 to 30 Oct 2020: ECB. From 1 Apr 1996 to 13 Jan 2000: Bank Al-Maghrib. Prior to Apr 1996: IMF International Financial Statistics.
MK	Macedonia	Compilation/Source	From 5 Jan 1993 onwards: National Bank of the Republic of Macedonia. Prior to Jan 1993: IMF International Financial Statistics.
MT*	Malta	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 14 Nov 1989 to 31 Dec 1998: European Commission. Prior to Nov 1989: IMF International Financial Statistics.
MU*	Mauritius	Compilation/Source	From 3 Mar 2003 onwards: IMF representative exchange rate collection. Prior to Mar 2003: IMF International Financial Statistics.
MX	Mexico	Compilation/Source	From 1 Jan 1999: ECB. From 2 Jan 1996 to 31 Dec 1998: European Commission. From 1 Apr 1993 to 1 Jan 1996: US Federal Reserve System.

Country			
			Prior to 1 Apr 1999: Bank of Mexico (prior to Jan 1992 unofficial research data)
MY	Malaysia	Compilation/Source	From 4 Jan 1999 onwards: ECB. From 4 Jan 1971 to 3 Jan 1999: US Federal Reserve System. Prior to Jan 1971: IMF International Financial Statistics.
NL	Netherlands	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 28 Jun 1974 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 27 Jun 1974: US Federal Reserve System. Prior to 4 Jan 1971: Deutsche Bundesbank.
NO	Norway	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 28 Jun 1974 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 27 Jun 1974: US Federal Reserve System. Prior to 4 Jan 1971: Deutsche Bundesbank.
NP*	Nepal	Compilation/Source	From 3 Jan 1994 onwards: IMF representative exchange rate collection. Prior to Jan 1994: IMF International Financial Statistics.
NZ	New Zealand	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 21 Sep 1981 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 20 Sep 1981: US Federal Reserve System. Prior to Jan 1971: IMF International Financial Statistics.
OM*	Oman	Compilation/Source	From 3 Jan 1994 onwards: IMF representative exchange rate collection. Prior to Jan 1994: IMF International Financial Statistics.
PE	Peru	Compilation/Source	From 01 Aug 1990: Central Reserve Bank of Peru. Prior to Apr 1990: IMF International Financial Statistics.
PH	Philippines	Compilation/Source	From 4 Jan 1999 onwards: ECB. From 2 Jan 1979 to 3 Jan 1999: Central Bank of the Philippines. Prior to Jan 1979: IMF International Financial Statistics.
PK*	Pakistan	Compilation/Source	From 3 Jan 1994 onwards: IMF representative exchange rate collection. Prior to Jan 1994: IMF International Financial Statistics.
PL	Poland	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 8 Jan 1990 to 31 Dec 1998: European Commission. From 2 Jan 1984 to 7 Jan 1990: National Bank of Poland. Prior to Jan 1984: IMF International Financial Statistics.
PT	Portugal	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 2 Jun 1975 to 31 Dec 1998: European Commission. From 2 Jan 1973 to 1 Jun 1975: US Federal Reserve System. From 29 Dec 1958 to 1 Jan 1973: Deutsche Bundesbank. Prior to 29 Dec 1958: Banco de Portugal.
QA*	Qatar	Compilation/Source	From 3 Jan 1994 onwards: IMF representative exchange rate collection. Prior to Jan 1994: IMF International Financial Statistics.
RO	Romania	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 16 Nov 1995 to 31 Dec 1998: European Commission. From 1 Feb 1990 to 15 Nov 1995: Deutsche Bundesbank. Prior to Feb 1990: IMF International Financial Statistics.
RS	Serbia	Compilation/Source	National Bank of Serbia.
RU	Russia	Compilation/Source	From 2 Mar 2022 onwards: Central Bank of the Russian Federation. From 4 Jan 1999 to 1 March 2022: ECB. From Jul 1992 to 3 Jan 1999: Central Bank of the Russian Federation. Prior to Jul 1992: IMF International Financial Statistics.
SA	Saudi Arabia	Compilation/Source	From 29 Dec 1988 onwards: Saudi Arabian Monetary Authority. Prior to Dec 1988: IMF International Financial Statistics.

Country			
SE	Sweden	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 28 Jun 1974 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 27 Jun 1974: US Federal Reserve System. Prior to 4 Jan 1971: Deutsche Bundesbank.
SG	Singapore	Compilation/Source	From 4 Jan 1999 onwards: ECB. From 2 Jan 1981 to 3 Jan 1999: US Federal Reserve System. Prior to Jan 1981: IMF International Financial Statistics.
SI	Slovenia	Compilation/Source	From 1 Jan 1999 onwards: ECB. Prior to 1 Jan 1999: European Commission.
SK	Slovak Republic	Compilation/Source	From 1 Jan 1999 onwards: ECB. Prior to 1 Jan 1999: European Commission.
TH	Thailand	Compilation/Source	From 4 Jan 1999 onwards: ECB. From 2 Jan 1981 to 3 Jan 1999: US Federal Reserve System. Prior to Jan 1981: IMF International Financial Statistics.
TN*	Tunisia	Compilation/Source	From 14 Jun 2010 onwards: IMF representative exchange rate collection. Prior to Jun 2010: IMF International Financial Statistics.
TR	Turkey	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 1 Jan 1990 to 31 Dec 1998: European Commission. Prior to 1 Jan 1990: Central Bank of the Republic of Turkey.
TT*	Trinidad & Tobago	Compilation/Source	From 3 Jan 1994 onwards: IMF representative exchange rate collection. Prior to Jan 1994: IMF International Financial Statistics.
TW*	Chinese Taipei	Compilation/Source	From 1 November 2020 onwards: US Federal Reserve System. From 13 Jan 2000 to 31 October 2020: ECB Prior to 4 Jan 1999: US Federal Reserve System.
UA*	Ukraine	Compilation/Source	From 2 Sep 1996 onwards: Deutsche Bundesbank. Prior to Sep 1996: IMF International Financial Statistics.
UY*	Uruguay	Compilation/Source	From 1 Jan 2000 onwards: Deutsche Bundesbank. Prior to Jan 2000: IMF International Financial Statistics.
VE*	Venezuela	Compilation/Source	From 2 Jan 1995 onwards: US Federal Reserve System. From Jan 1994 to 1 Jan 1995: IMF representative exchange rate collection. Prior to Jan 1994: IMF International Financial Statistics.
XM	Euro area	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 28 Jun 1974 to 31 Dec 1998: European Commission.
ZA	South Africa	Compilation/Source	From 1 Jan 1999 onwards: ECB. From 2 Dec 1993 to 31 Dec 1998: European Commission. From 4 Jan 1971 to 1 Dec 1993: US Federal Reserve System. Prior to 4 Jan 1971: South African Reserve Bank

* non BIS member countries

Countries² for which nominal exchange rate series are compiled using IMF International Financial Statistics only

Afghanistan (AF), Albania (AL), Angola (AO), Anguilla (AI), Antigua and Barbuda (AG), Armenia (AM), Aruba (AW), Azerbaijan (AZ), Bahamas (BS), Bangladesh (BD), Barbados (BB), Belarus (BY), Belize (BZ), Benin (BN), Bhutan (BT), Bolivia (BO), Botswana (BW), Burkina Faso (BF), Burundi (BI), Cambodia (KH), Cameroon (CM), Central African Republic (CF), Cape Verde (CV), Chad (TD), Comoros (KM), Congo (CG), Congo Democratic Republic (formerly Zaire) (CD), Costa Rica (CR), Cote d'Ivoire (CI), Djibouti (DJ), Dominica (DM), Dominican Republic (DO), Egypt (EG), El Salvador (SV), Equatorial Guinea (EQ), Eritrea (ER), Ethiopia (ET), Fiji (FJ), Gabon (GA), Gambia (GM), Georgia (GE), Ghana (GH), Grenada (GD), Guatemala (GT), Guinea (GN), Guinea-Bissau (GW), Guyana (GY), Haiti (HT), Honduras (HN), Iraq (IQ), Jamaica (JM), Jordan (JO), Kenya (KE), Kiribati (KI), Kyrgyzstan (KG), Laos (LA), Lebanon (LB), Lesotho (LS), Liberia (LR), Libya (LY), Macao SAR (MO), Madagascar (MG), Malawi (MW), Maldives (MV), Mali (ML), Mauritania (MR), Micronesia (FM), Moldova (MD), Mongolia (MN), Montenegro (ME), Montserrat (MS), Mozambique (MZ), Myanmar (MM), Namibia (NA), Netherlands Antilles (AN), Nicaragua (NI), Niger (NE), Nigeria (NG), Panama (PA), Papua New Guinea (PG), Paraguay (PY), Rwanda (RW), San Marino (SM), Sao Tome & Principe (ST), Senegal (SN), Sierra Leone (SL), Seychelles (SC), Solomon Islands (SB), Somalia (SO), South Sudan (SS), St. Kitts – Nevis (KN), St. Lucia (LC), St. Vincent (VC), Sudan (SD), Suriname (SR), Swaziland (SW), Tajikistan (TJ), Tanzania (TZ), Togo (TG), Tonga (TO), Turkmenistan (TM), Uganda (UG), Uzbekistan (UZ), Vanuatu (VU), Vietnam (VN), WAEMU (WA), Western Samoa (WS), Yemen (YE), Yugoslavia (from 1993 onwards Serbia and Montenegro only) (YU), Zambia (ZM), Zimbabwe (ZW).

² Non BIS member countries, except for Vietnam (VN)